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10/773,440

02/09/2004

Yves Fradet

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EXAMINER

AEDER, SEAN E

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/773,440	Applicant(s) FRADET ET AL.	
	Examiner SEAN E. AEDER	Art Unit 1642	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 July 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 41-65 and 67-69 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 41-65 and 67-69 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Detailed Action

The Amendments and Remarks filed 7/9/08 in response to the Office Action of 11/16/07 are acknowledged and have been entered.

Claims 41-65 and 67-69 are pending.

Claims 41 and 67 have been amended by Applicant.

Claims 41-65 and 67-69 are currently under examination.

The following Office Action contains NEW GROUNDS of rejections.

Rejections Withdrawn

All previous rejections and objections are withdrawn.

New Rejections

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

Art Unit: 1642

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 41-50, 57, 58, 61, 63, 65, 67, and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bussemakers et al (US 7,008,765 B1; filed 4/9/98) in view of Clements et al (The Journal of Urology, 4/99, 161: 1337-1343) and Goessl et al (Cancer Research, November 2000, 60: 5941-5945).

The claims are drawn to methods for determining a predisposition for developing prostate cancer or a presence of prostate cancer in a patient comprising detecting PCA3 mRNA and a prostate-specific polynucleotide in urine samples from said patient comprising at least one prostate cell or nucleic acid thereof and not comprising semen.

Bussemakers et al teaches a sequence corresponding to PCA3, SEQ ID NO:6, that is 99.5% homologous to instant SEQ ID NO:9 and shares 99.6% local similarity to the first 2036 amino acids of instant SEQ ID NO:9 (see sequence comparisons). SEQ ID NO:6 is 100% identical to instant SEQ ID NO:10 (see sequence comparisons). SEQ ID NO:6 is 89.1% homologous to instant SEQ ID NO:13 and shares 99.6% local similarity to the first 3582 polynucleotides of instant SEQ ID NO:13 (see sequence comparisons). Due to the high degree of homology between SEQ ID NO:6 and instant SEQ ID Nod 9, 10, and 13, one of skill in the art would recognize that complements of SEQ ID NO:6 would hybridize to instant SEQ ID NOs 9, 10, and 13. Bussemakers et al further teaches a method for determining a predisposition for or the presence of prostate cancer in a patient comprising (a) performing an RT-PCR RNA amplification

Art Unit: 1642

assay on a prostate biopsy sample comprising at least one prostate cell of said patient, or nucleic acid thereof, using a first primer pair specific to SEQ ID NO:6, (b) performing a second RT-PCR RNA amplification assay on said sample using a second primer pair specific to PSA, (c) detecting in said sample an amount of PCA3 and PSA mRNA; and (d) wherein an increased level of PCA3 mRNA, as compared to the level of PCA3 mRNA in a sample from a normal subject, indicates that said patient will develop prostate cancer or that said patient has prostate cancer; and (e) wherein an absence of PCA3 mRNA or a lower level of PCA3 mRNA, as compared to the level of PCA3 mRNA in a sample from a normal subject, indicates that said patient will not develop prostate cancer and that said patient does not prostate cancer, when PSA mRNA is detected (Example 2, in particular). Further, PSA would hybridize to kallikrein 2. Bussemakers further teaches a method wherein said amplification assay is TMA (column 37, in particular). Bussemakers further teaches a method wherein said amplification of PCA3 and said PSA mRNA is performed simultaneously (column 36, in particular). Bussemakers further teaches a method wherein said detection is performed by chemiluminescence (paragraph bridging columns 15-16, in particular). By teaching PSA mRNA is detected in both benign and malignant prostate samples and that the level of PSA mRNA is not a reliable indicator of prostate cancer disease state, Bussemakers teaches a method wherein detection of PSA would validate a negative result for PCA3 detection in that the detection of PSA mRNA is indicative of the presence of prostate cells in a sample that did not display elevated PCA3 levels (Example 2, in particular). Bussemakers further teaches a method wherein said

Art Unit: 1642

detection of PCA3 is carried out using chemiluminescent labels in a homogenous detection method (see paragraph bridging pages 15-16 and Example 2, in particular). Bussemakers further teaches a method wherein said amplification of PCA3 and said second prostate specific nucleic acid is performed simultaneously in one container (see column 36, in particular).

Bussemakers does not specifically teach methods using a urine sample, a urine sample not containing semen, or a urine sample obtained after a digital rectal examination. However, these deficiencies are made up in the teachings of Clements et al and Goessl et al.

Clements et al teaches a method of using RT-PCR to detect PSA mRNA as a selective marker of prostate cells in urine from normal and prostate cancer patients (see abstract, in particular). Clements et al further teaches methods using urine samples from patients that have had digital rectal exams (left column of page 1338, in particular). Clements et al further teaches that PSA mRNA expression is intended to be used as a marker for prostate cells when screening patients for mRNA markers that are upregulated in prostate cancer cells of patients with prostate cancer (see paragraph flanking pages 1340-1341, in particular).

Goessl et al teaches a method of diagnosing prostate cancer using urine samples following a prostate massage in order to obtain urine samples with prostate cells to be analyzed for markers of prostate cancer (page 5941, in particular). Goessl et al further teaches that prostate massage is used to obtain urine samples comprising prostate cells in methods of diagnosing prostate cancer in older patients because

Art Unit: 1642

ejaculates are not always easily obtained from older patients (left column of page 5944, in particular).

One of ordinary skill in the art at the time the invention was made would have been motivated to diagnose prostate cancer in older patients using urine not containing semen from patients that have had a digital rectal examination, wherein the urine is collected following a prostate massage as the sample of the method taught by Bussemakers et al because Goessl et al teaches that prostate massage is used to obtain urine samples comprising prostate cells in older patients (left column of page 5944), obtaining urine not containing semen collected following a prostate massage is less unpleasant and invasive than collecting a prostate biopsy, and combining two methods of detecting prostate cancer (marker detection and digital rectal examinations) would increase likelihood of detecting prostate cancer as compared to performing either method alone. In addition to reasons obvious from the teachings of Bussemakers et al, one of skill would have been further motivated to use PSA mRNA as a marker for prostate cells when screening for PCA3 mRNA in urine not containing semen that was collected following a prostate massage because Clemens et al demonstrates PSA mRNA expression as a marker for prostate cells when screening patients for mRNA markers that are upregulated in patients with prostate cancer (see paragraph flanking pages 1340-1341, in particular) and Bussemakers et al teaches PCA3 demonstrates 20-fold overexpression in prostate cancer cells as compared to PCA3 expression levels in prostate cells from patients without prostate cancer (column 37 of Bussemakers et al, in particular). One of ordinary skill in the art at the time the invention was made would

Art Unit: 1642

have had a reasonable expectation of success using urine not containing semen from patients that have had a digital rectal examination, collected following a prostate massage as the sample of the method taught by Bussemakers et al because Goessl et al teaches a method of detecting polynucleotides of prostate cells in urine not containing semen collected following a prostate massage (page 5941, in particular) and Clemens et al teaches methods comprising performing digital rectal examinations. Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made, absent unexpected results.

In the Submission of 7/9/08, Applicant argues that Bussemakers does not teach a method wherein detection of PSA would validate a negative result for PCA3 detection. Applicant further indicates that Bussemakers does not teach a method wherein amplification of PCA3 and prostate-specific mRNA is performed simultaneously. Applicant further argues that the samples of Clements were not obtained following a digital rectal examination & the digital rectal examination of Clements served to recruit patients in the study. Applicant further argues that because Bussemakers teaches that PSA is exclusively expressed in cells of the prostate and that Clements teaches PSA is known not to be exclusively prostate specific, combination of the two references is improper and argues against motivation to combine them. Applicant further argues that improper hindsight was used to combine Bussemakers with Clements.

The amendments to the claims and the arguments found in the Submission of 7/9/08 have been carefully considered, but are not deemed persuasive. In regards to the argument that Bussemakers does not teach a method wherein detection of PSA

Art Unit: 1642

would validate a negative result for PCA3 detection, by teaching PSA mRNA is detected in both benign and malignant prostate samples and that the level of PSA mRNA is not a reliable indicator of prostate cancer disease state, Bussemakers teaches a method wherein detection of PSA would validate a negative result for PCA3 detection in that the detection of PSA mRNA is indicative of the presence of prostate cells in a sample that does not display elevated PCA3 levels (Example 2, in particular).

In regards to the argument that Bussemakers does not teach a method wherein amplification of PCA3 and prostate-specific mRNA is performed simultaneously, Bussemakers teaches (at lines 57-63 of column 36) amplification of PCA3 and PSA and mRNA performed in a single semi-quantitative RT-PCR analysis. Further, claims drawn to methods of “simultaneously” amplifying two particular markers encompass methods of detecting said two particular markers during said method. Amplification of PCA3 and said PSA and mRNA in the same method would be performed in the combined teachings discussed above. Therefore, the combined teachings discussed above teach a method whereby amplification of PCA3 and PSA is performed simultaneously. Further, it would be obvious and routine for one of skill in the art to perform amplification of both markers in the same container in order to save time.

In regards to the argument that the samples of Clements were not obtained following a digital rectal examination & the digital rectal examination of Clements served to recruit patients in the study, the digital rectal exam was performed prior to obtaining a urine sample. Further, it is obvious to one of skill in the art to perform a diagnostic assay for prostate cancer that obtains immediate results and requires relatively no

Art Unit: 1642

equipment (a digital rectal examination) before performing diagnostic assays that requires a waiting time & laboratory tests (such as detection of a molecular marker).

In regards to the arguments that combination of Bussemakers and Clements is improper and improper hindsight was used to combine Bussemakers with Clements, one of ordinary skill in the art at the time the invention was made would have been motivated to diagnose prostate cancer in older patients using urine not containing semen, from patients that have had a digital rectal examination, collected following a prostate massage as the sample of the method taught by Bussemakers et al because Goessl et al teaches that prostate massage is used to obtain urine samples comprising prostate cells in older patients (left column of page 5944), obtaining urine not containing semen collected following a prostate massage is a less unpleasant and invasive than collecting a prostate biopsy, and combining two methods of detecting prostate cancer (marker detection and digital rectal examinations) would increase likelihood of detecting prostate cancer as compared to performing either method alone. In addition to reasons obvious from the teachings of Bussemakers et al, one of skill would have been further motivated to use PSA mRNA as a marker for prostate cells when screening for PCA3 mRNA in urine not containing semen that was collected following a prostate massage because Clemens et al demonstrates PSA mRNA expression as a marker for prostate cells when screening patients for mRNA markers that are upregulated in patients with prostate cancer (see paragraph flanking pages 1340-1341, in particular) and Bussemakers et al teaches PCA3 demonstrates 20-fold overexpression in prostate

Art Unit: 1642

cancer cells as compared to PCA3 expression levels in prostate cells from patients without prostate cancer (column 37 of Bussemakers et al, in particular).

Claims 41-50, 57, 58, 61-65, 67, and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bussemakers et al (US 7,008,765 B1; filed 4/9/98) in view of Clements et al (The Journal of Urology, 4/99, 161: 1337-1343) and Goessl et al (Cancer Research, November 2000, 60: 5941-5945) as applied to claims 41-50, 57, 58, 61, 63, 65, 67, and 68 above, and further in view of Cheung et al (Journal of Clinical Microbiology, 10/94, 2593-2597).

Teaching of claims 41-50, 57, 58, 61, 63, 65, 67, and 68 by the combined teachings of Bussemakers, Clements, and Goessl is discussed above. The combined teachings of Bussemakers, Clements, and Goessl do not specifically teach method of extracting RNA using a silica-based method. However, these deficiencies are made up in the teachings of Cheung et al.

Cheung et al teaches a method of extracting RNA from a sample using a silica-based method (pages 2593-2594, in particular). Cheung et al further teaches that the silica-based method is at least as sensitive and in certain circumstances more sensitive than traditional phenol-chloroform extraction (page 2593, in particular). Cheung et al further teaches that this improved sensitivity may be due to more efficient recovery by silica particles (page 2593, in particular).

Therefore, it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use silica particles as taught by Cheung et al

Art Unit: 1642

in the methods of detecting a predisposition for and the presence of prostate cancer by detecting RNA as taught by the combined teachings of Bussemakers, Clements, and Goessl. Further, one would have been motivated to do so because silica-based methods of RNA purification are at least as sensitive and in certain circumstances more sensitive than traditional phenol-chloroform extraction. Further, one of skill in the art would have a reasonable expectation of success in performing the combined methods because silica-based methods of RNA purification are well known and conventional in the art.

Claims 41-50, 57- 61, 63, 65, 67-69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bussemakers et al (US 7,008,765 B1; filed 4/9/98) in view of Clements et al (The Journal of Urology, 4/99, 161: 1337-1343) and Goessl et al (Cancer Research, November 2000, 60: 5941-5945) as applied to claims 41-50, 57, 58, 61, 63, 65, 67, and 68 above, and further in view of Baret (EP 0 256 932 A2; 2/24/88).

Teaching of claims 41-50, 57, 58, 61, 63, 65, 67, and 68 by the combined teachings of Bussemakers, Clements, and Goessl is discussed above. The combined teachings of Bussemakers, Clements, and Goessl do not specifically teach method using acridinium ester as a chemiluminescent label or wherein detection of PCA3 is carried-out using acridinium ester. However, these deficiencies are made up in the teachings of Baret et al.

Baret teaches methods of chemiluminescent detection using acridinium ester compounds (page 4, in particular). Further, Baret teaches methods of

Art Unit: 1642

chemiluminescent detection using acridinium ester compounds are particularly useful for nucleotide probe analysis because they provide very stable signals that are measurable for long periods of time (page 3, in particular).

Therefore, it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use acridinium ester compounds as taught by Baret with chemiluminescent detection methods as taught by the combined teachings of Bussemakers, Clements, and Goessl. Further, one would have been motivated to do so because Baret teaches methods of chemiluminescent detection using acridinium ester compounds are particularly useful for nucleotide probe analysis because they provide very stable signals that are measurable for long periods of time (page 3, in particular). Further, one of skill in the art would have a reasonable expectation of success in performing the claimed method since chemiluminescent detection using acridinium ester compounds is well known and conventional in the art.

Claims 41-51, 54, 57, 58, 61, 63, 65, 67, and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bussemakers et al (US 7,008,765 B1; filed 4/9/98) in view of Clements et al (The Journal of Urology, 4/99, 161: 1337-1343) and Goessl et al (Cancer Research, November 2000, 60: 5941-5945) as applied to claims 41-50, 57, 58, 61, 63, 65, 67, and 68 above, and further in view of Buck et al (1999, Biotechniques, 27(3):528-536).

Teaching of claims 41-50, 57, 58, 61, 63, 65, 67, and 68 by the combined teachings of Bussemakers, Clements, and Goessl is discussed above. The combined

Art Unit: 1642

teachings of Bussemakers, Clements, and Goessl do not specifically teach a method comprising detecting PCA3 using a primer pair comprising SEQ ID NOs: 3 and 4 or a method comprising detecting PSA using a primer pair comprising SEQ ID NOs: 1 and 2. However, these deficiencies are made up in the teachings of Buck et al.

Buck et al teaches a study wherein 69 different primer sequences were submitted by 39 different laboratories and 95 control primers distributed at 3 base pair intervals across a 300 base pair oligonucleotide test sequence were analyzed (pages 528-529, in particular). It was determined that all the submitted primers functioned very well and almost all the "control" primers functioned very well (page 533). Only one the "control" primers functioned poorly; however, the poorly performing control primer performed adequately under optimized conditions (page 533). Thus, under optimal sequencing conditions with highly pure template and primer, many of the commonly applied primer design parameters are dispensable (see page 528, in particular).

One of ordinary skill in the art at the time the invention was made would have been motivated to perform the method taught by the combined teachings of Bussemakers, Clements, and Goessl by using a primer pair comprising SEQ ID NOs: 3 and 4 to detect PCA3 and a primer pair comprising SEQ ID NOs: 1 and 2 to detect PSA because Buck et al teaches that, due to the new generation of sequencing reagents (page 528, in particular), any sequences throughout a known oligonucleotide would be obvious choices to design a primer. One of ordinary skill in the art at the time the invention was made would have had a reasonable expectation of success for performing the method taught by the combined teachings of Bussemakers, Clements,

Art Unit: 1642

and Goessl by using a primer pair comprising SEQ ID NOs: 3 and 4 to detect PCA3 and a primer pair comprising SEQ ID NOs: 1 and 2 to detect PSA because Bussemakers et al teaches a method of using primers to detect PSA and PCA3 (Example 2, in particular). Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made, absent unexpected results.

Claims 41-50, 52, 53, 55-58, 61, 63, 65, 67, and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bussemakers et al (US 7,008,765 B1; filed 4/9/98) in view of Clements et al (The Journal of Urology, 4/99, 161: 1337-1343) and Goessl et al (Cancer Research, November 2000, 60: 5941-5945) as applied to claims 41-50, 57, 58, 61, 63, 65, 67, and 68 above, and further in view of Schlegel et al (US 2002/0168638 A1; filed 1/24/01).

Teaching of claims 41-50, 57, 58, 61, 63, 65, 67, and 68 by the combined teachings of Bussemakers, Clements, and Goessl is discussed above. The combined teachings of Bussemakers, Clements, and Goessl do not specifically teach a method comprising using molecular beacons, such as those that comprise SEQ ID NO:5 or SEQ ID NO:6, to detect PCA3 and PSA. However, these deficiencies are made up in the teachings of Schlegel et al.

Schlegel et al teaches methods of detecting prostate cancer comprising detecting PCA3 polynucleotides and PSA (paragraph 161, in particular). Schlegel et al further teaches methods of detecting markers of prostate cancer comprising using molecular

Art Unit: 1642

beacons (paragraph 216, in particular). Schlegel et al further teaches that molecular beacons are useful for quantitating the presence of nucleic acids in a sample (paragraph 216, in particular). Schlegel et al further teaches methods wherein the biological sample is urine (paragraph 12 and 150, in particular).

One of ordinary skill in the art at the time the invention was made would have been motivated to perform the method taught by the combined teachings of Bussemakers, Clements, and Goessl using any molecular beacon specific for PCA3 mRNA, including one comprising SEQ ID NO:6, and any molecular beacon to detect PSA mRNA, including one comprising SEQ ID NO:5, because Bussemakers et al teaches the polynucleotide sequences of PCA3 and PSA, rendering any molecular beacon comprising any SEQ ID NO that would detect PCA3 or PSA obvious, and Schlegel et al further teaches that molecular beacons are useful for quantitating the presence of nucleic acids in a sample (paragraph 216, in particular). One of ordinary skill in the art at the time the invention was made would have had a reasonable expectation of success for using molecular beacons to detect PCA3 and PSA in the method taught by the combined teachings Bussemakers, Clements, and Goessl, including those comprising SEQ ID NO:5 and those comprising SEQ ID NO:6, because Schlegel et al teaches methods of detecting markers of prostate cancer comprising using molecular beacons (paragraph 216, in particular). Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made, absent unexpected results.

Summary

No claim is allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEAN E. AEDER whose telephone number is (571)272-8787. The examiner can normally be reached on M-F: 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on 571-272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sean E Aeder/
Examiner, Art Unit 1642

Application/Control Number: 10/773,440
Art Unit: 1642

Page 17